

DATE: 06/04/2002

PCT09

TIME: 15:53:49 PATENT APPLICATION: US/09/701,586B Input Set : A:\701586sq Output Set: N:\CRF3\06042002\I701586B.raw 3 <110> APPLICANT: Kock, Michael Hoeger, Thomas ENTERED 5 Kroeger, Burkhard Otterbach, Bernd Lubisch, Wilfried Lemaire, Hans-Georg 10 <120> TITLE OF INVENTION: Poly (ADP-ribose) polymerase-gene 12 <130> FILE REFERENCE: 0050/49100 14 <140> CURRENT APPLICATION NUMBER: US 09/701,586B /> 15 <141> CURRENT FILING DATE: 2002-04-25 17 <150> PRIOR APPLICATION NUMBER: PCT/EP99/03889 18 <151> PRIOR FILING DATE: 1999-06-04 20 <160> NUMBER OF SEQ ID NOS: 33 22 <170> SOFTWARE: PatentIn/WordPerfect 24 <210> SEQ ID NO: 1 25 <211> LENGTH: 1843 26 <212> TYPE: DNA 27 <213> ORGANISM: Homo sapiens 29 <220> FEATURE: 30 <221> NAME/KEY: CDS 31 <222> LOCATION: (3)...(1715) 32 <223> OTHER INFORMATION: product is Poly ADP Ribose Polymerase; from brain tissue 34 <400> SEQUENCE: 1 47 Met Ala Ala Arg Arg Arg Ser Thr Gly Gly Arg Ala Arg 40 gca tta aat gaa agc aaa aga gtt aat aat ggc aac acg gct cca gaa 95 41 Ala Leu Asn Glu Ser Lys Arg Val Asn Asn Gly Asn Thr Ala Pro Glu 42 143 44 gac tet tee eet gee aag aaa aet egt aga tge eag aga eag gag teg 45 Asp Ser Ser Pro Ala Lys Lys Thr Arg Arg Cys Gln Arg Gln Glu Ser 40 191 48 aaa aag atg cct gtg gct gga gga aaa gct aat aag gac agg aca gaa 49 Lys Lys Met Pro Val Ala Gly Gly Lys Ala Asn Lys Asp Arg Thr Glu 52 gac aag caa gat gaa tet gtg aag gee ttg etg tta aag gge aaa get 239 53 Asp Lys Gln Asp Glu Ser Val Lys Ala Leu Leu Leu Lys Gly Lys Ala 70 56 cct gtg gac cca gag tgt aca gcc aag gtg ggg aag gct cat gtg tat 287 57 Pro Val Asp Pro Glu Cys Thr Ala Lys Val Gly Lys Ala His Val Tyr 85 90 60 tgt gaa gga aat gat gtc tat gat gtc atg cta aat cag acc aat ctc 335 61 Cys Glu Gly Asn Asp Val Tyr Asp Val Met Leu Asn Gln Thr Asn Leu

RAW SEQUENCE LISTING

RAW SEQUENCE LISTING DATE: 06/04/2002 PATENT APPLICATION: US/09/701,586B TIME: 15:53:49

Input Set : A:\701586sq

Output Set: N:\CRF3\06042002\1701586B.raw

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		-	_		Asn		_	-		_	_			_	_				
	70			130					135		-	-	-	140		-			
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	85	Gln	Met	Asp	Tyr	Ala	Thr	Asn	Thr	Gln	Asp	Glu	Glu	Glu	Thr	Lys	Lys		
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		Glu	Glu		Leu	Lys	Ser	Pro	Leu	Lys	Pro	Glu	Ser	Gln	Leu	Asp	Leu		
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	94		225					230					235						
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			Met	Met	Met	Glu		Lys	Tyr	Asn	Thr	_	Lys	Ala	Pro	Leu	_		
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																	g aag	815	
			ь тес	ı Tnı	. val			TTE	: гуѕ	A L a	-	-	c GII	ı sei	r Le	_	s Lys		
	102					260					265			.—		270			
																	g gaa	863	
	105		: GIL	ı ASL	275		: Arg	. ATG	с Сту	280		i GT	ALC) AT	а це 289		t Glu		
			+ ~ ~	+			. +					1	- ~~	. +++			c cgt	011	
		_	_		_						_		_				ı Arg	911	
	110		. Cys	290		PHE	: IYI	1111	295		FIC) HIS	o waf	300	_	у пе	u Ary		
			cot			ato					r mas	ata	t tos		-	a a+:	a caa	959	
																	e Gln	939	
	114		305		ле с	. 110	. nry	310		. ny a	, 610	. Dec	315		и шу.	3 110	e Gin	•	
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																	l Lys	1007	
		320		. 510			325	_		. 510		330		y ·	- 2001	. •u.	335		
•				r eta	n daa	age			car		1 ++			a cad	n tai	t aga	a aac	1055	
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	122				_ .	340					345	_			1.	350	-		
			cat	t.at	g acc			ccc	ctt	gac			a aσt	: tac	c σac		c aaa	1103	
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RAW SEQUENCE LISTING

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		\mathtt{Tyr}		Met	Thr	Leu	Leu	-	Leu	Phe	Glu	Val		Lys	Asp	Gly	Glu	
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														Phe				1010
	146				435	014				440	0-1	-1-			445	-1-	5- 2	
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	150		-	450		_			455	_				460	_			•
	152	tct	cgc	cta	aag	aat	aca	gga	ctg	ctg	ctc	tta	tca	gag	gta	gct	cta	1439
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	174		545					550				_	555					
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													~~~		~+~ <i>.</i>	-++	+	1705
														aaaa			gaatt	1785 1843
					D NO		ca a	aaac	Ly La	s ag	gicci	aaaa	aaaa	aaaa	ida c	ıaaa	iaaa	1043
					H: 5'													
			2> T															
						Homo	o sap	oiens	3									,
					NCE:		1											
							Arg	Arg	Ser	Thr	Gly	Gly	Gly	Arg	Ala	Arg	Ala	
	193					5	_	_			10	_	-			15		
	195	Leu	Asn	Glu	Ser	Lys	Arg	Val	Asn	Asn	Gly	Asn	Thr	Ala	Pro	${\tt Glu}$	Asp	

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/701,586B TIME: 15:53:49

DATE: 06/04/2002

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	205						70					75					80				
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	208					85					90			_		95	_				
		Glu	Gly	Asn		Val	Tyr	Asp	Val		Leu	Asn	Gln	Thr		Leu	Gln				
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		Phe	Asn		Asn	Lys	Tyr	Tyr		Ile	GIn	Leu	Leu	Glu	Asp	Asp	Ala				
	214	~-	_	115	-1	~	1		120	•		a 1	•	125	a 1	-	30.4				
		GIn	_	Asn	Pne	ser	vaı	_	мет	Arg	Trp	GTÄ		Val	GTA	ьys	мет				
	217	a 1	130	TT	0	T 0	370.1	135	O	g.~~	<i>~</i> 1	» an	140	N a n	T	31 0	T				
		_	GIII	HIS	ser	ьeu		Ата	Cys	ser	СТУ	155	ьeu	Asn	гуѕ	ATa					
	220		т10	Dho	Cln	T 110	150	Dho	T 011) an	Tvc		Laze	Asn	λan	Trn	160				
	223	GIU	TIE	Pile	GIII	165	пуъ	PILE	пеп	ASP	170	1111	цуз	MSII	ASII	175	GIU				
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	226	пэр	nry	GIU	180	riic	GIU	цуз	vul	185	GLY	ц	* 7 *	пор	190	LCu	OIII				
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														Leu							
														M							
		GIU	Leu	GIN		Pro	GIU	HIS	Pro		Asp	GIN	HIS	Tyr		ASD	Leu				
	256	774.0		n 1 =	340	3	D	T	3	345	61	G	m	a 1	350	T	17- 1			•	
•	258 259	urs	Cys	355	ьeu	Arg	PLO	ьeu	360	nis	GIU	ser	TAL	Glu 365	rne	гЛЯ	VdI				
		Tla	Sor		Фттт	Lou	Gln	Ser		uie	λls	Dro	Thr	His	Ser	λαν	Фттъ				
	262	TTE	370	GTII	тут	ьeu	GTII	375	TIII.	uTS	wid	FIO	380	птэ	26T	vaħ	TAT				
		Thr		ጥኮኍ	Len	Len	Aen		Pho	Glu	Va 1	Glu		Asp	Glv	Glu	Lve				
	265		MC C	T 11T	Leu	Leu	390	Leu	rne	GIU	, u T	395	Lys	rap	O.L.Y	GIU	400				
			Ala	Phe	Ara	Glu		Leu	His	Asn	Arσ		Leu	Leu	Tro	His					
	207	CIU		1 110		405					410		u	u	5	415	y				

410

415

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RAW SEQUENCE LISTING DATE: 06/04/2002 PATENT APPLICATION: US/09/701,586B TIME: 15:53:49

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Output Set: N:\CRF3\06042002\1701586B.raw

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	280		пец	БУЗ	NSII	1111	470	пеп	пец	неи	пец	475	Giu	Val	АТа	пеп	480					
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	289			515					520	·				525								
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	322	Me		la Pi	O L	s Pı		/S P1	co Ti	rp Va	al Gl	ln Th	nr G	lu G1	Ly Pi							
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	327		~~+	~~~	~~~	20										30			202			
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														Thr								
	335		-	50		-			55				-	60			-					
	337	gag	gac	tac	aac	tgc	acc	ctg	aac	cag	acc	aac	atc	gag	aac	aac	aac		478			
		Glu		Tyr	Asn	Cys	Thr		Asn	Gln	Thr	Asn		Glu	Asn	Asn	Asn					
	339		65					70					75						_			
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RAW SEQUENCE LISTING ERROR SUMMARY PATENT APPLICATION: US/09/701,586B

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Please Note:

Seq#:11; Xaa Pos. 2,3,4,5,6,7,9,10,11

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

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Seq#:17; Xaa Pos. 2,4,5,6,8,9,10,11,12,13,14,15,16,18,19,20,21,22,23,24,25
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